

# FERALCO NEW PRODUCTS FOR PAPER INDUSTRY



## Polyaluminium based products for paper applications

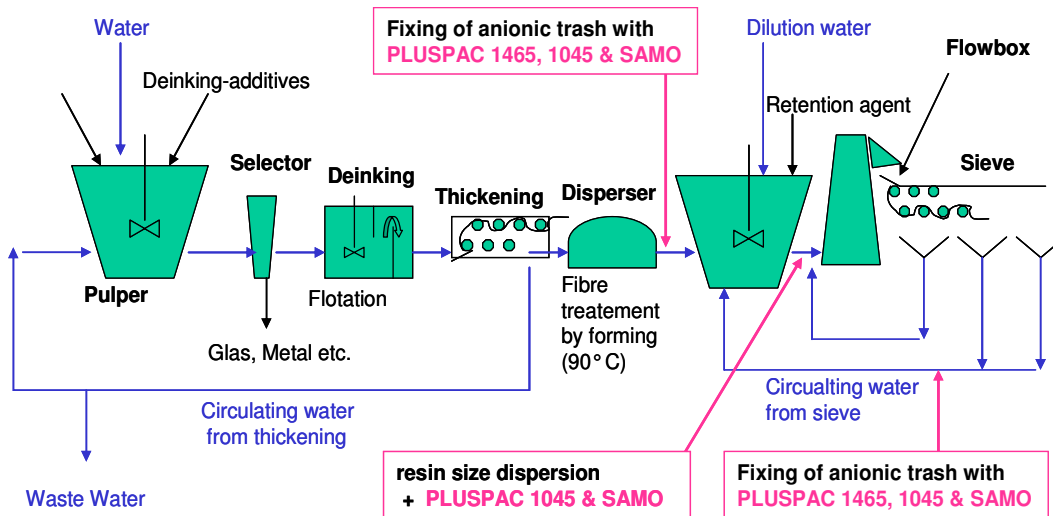
New products active matter consists in polyaluminium species, specially designed to cover full range of paper making and water treatment needs.

- Active matter content is expressed as  $Al_2O_3\%$
- Cationic strength depends on polymerisation state of active matter characterized by so-called basicity B%. The higher the basicity, the higher the polymerization state.

	SAMO	PLUSPAC 1045	PLUSPAC 1465
$Al_2O_3\%$	8.6	10	14
B%	15	45	65
pH	2.7	2.3	1.7

- SAMO is chloride free and much less acidic than Alum sulphate which B% is about 5.

## Products for paper making and water treatment



feralco



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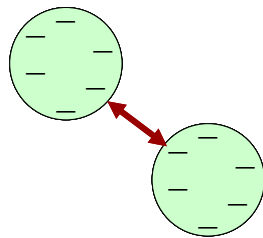
## Fixing of anionic trash & controlling pich

PLUSPAC and SAMO are added prior to other cationic additive. The usual dosing rates is 0.5 – 3.0 %.

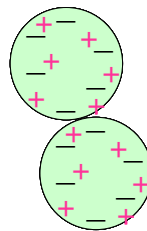
### Anionic trash:

- Lignans, resins, carbohydrates
- Binder, dispersants, adhesives

Alum salt is dosed at first  
prior to cationic additives



Anionic trash with  
high repulsive force



Neutralized charge  
no repulsive force

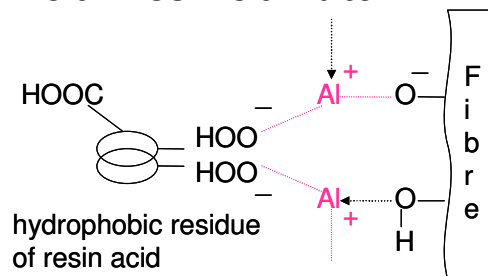
## Fixing of resin size

### Acid fixing (pH 4,5 - 6,5)

- Precipitation of resin acid on fibres is recommended using SAMO

### Pseudoneutral fixing (pH 6,5 – 7,4)

- Cationic resin - dispersions and resin – aluminium - dispersions can be fixed with SAMO or PLUSPAC on fibres



Resin size + 2,5 % - 5 % SAMO or PLUSPAC 1045 to paper (oven-dry)

Ratio

Resin size / fixing agent  
1,0 / 0,5 - 1,8

## Waste water from pulp mill

PLUSPAC 1465 is very good candidate for Carbon Organic Demand decrease from hemicelluloses and lignin highly loaded waters.



FERALCO ENVIRONNEMENT, 158 AVENUE DE STALINGRAD-BAT 6, F-92712 COLOMBES CEDEX.  
TEL. +33 1 41 39 71 41 / FAX +33 1 41 39 71 63, [www.feralco.com](http://www.feralco.com)

